Index for Volume 25 (1976)

COMPILED BY TROY L. BEST

Acadiocaris novoscotica, 369
Acantharchus pomotis, 325, 327
Acanthisitta, 23
Acanthisittidae, 23
Acari, 386–409
Acris, 434
Aegyptopithecus, 296
Alcedinidae, 21, 29
Alcediniformes, 22, 24, 29
Alleustathia, 388, 390, 391, 401
Allodape, 35, 37, 39–42, 44–52
  ceratinoides, 36, 46
  interrupta, 46
  mucronata, 36, 37, 39, 41
  rufogastra, 41, 46
Allodapine bees, 32–56
Allodapula, 34, 35, 39–42, 44, 45, 49–52, 54
  acutigera, 36, 39, 46
  dichroa, 46
  hessei, 39, 45, 46
  melanopus, 39, 43, 44, 52
  rozeni, 36
  variegata, 39, 44, 46, 52
Allodapulodes, 33, 35, 39–41, 45, 51, 52
Allometry, 201–209
Alouatta, 295
  villosa, 293, 294
Ambloplites rupestris, 324, 325, 327, 333
Ametrida, 312
  centurio, 308
Amia calva, 9
Amphisbaenidae, 68
Analysis,
  morphological, 336–342
  phylogenetic, 72–76
Anas
  aucklandica, 267
  gibberifrons, 267
Ancester-descendant relationships, 12–18
Ancestor-descendant relationships in phylogeny reconstruction, the place of, G. F. Engelmann and E. O. Wiley, 1–11
Ancestors, descendants, sister groups and testing of phylogenetic hypotheses, F. S. Szalay, 12–18
Angelocabrerus, 417, 419
Anguidae, 63, 68
Anguis, 68
  fragilis, 63
Anniella
  geronimensis, 57–71
  pulchra, 57–71
Anniellidae, 57–71
Anolis, 152
  cybotes, 66
  luciae, 66
  marcanoi, 66
  roquet, 66
Anotheca spinosa, 72–76
Anoura, 311
  caudifer, 308, 310
  geoffroyi, 308, 310
Antechinomys, 417
Antechinus flavipes, 416
Anthracocaris, 375
Anura, 165–184
Anuran parasites, 277–289
Aotus trivirgatus, 293–295
Apis, 37
Aplonis
  brunneocapilla, 267
  metallica, 267
Apodi, 386–409
Apodidae, 400, 401
Apodiformes, 21, 386–409
Apteryx, 20
Archaeocaris, 369
Archoplites interrupterus, 325, 327
Ardops, 312
  nichollsi, 306, 308
Arenaeus cribrarius, 139
Ariteus, 312
  flavescens, 306, 308
Arminiheringia, 418, 420, 423
Armstrong, David M., Dispersal vs. dispersion: Process vs. pattern, 210–211
Artibeus
  fuliginosus, 306
  glaucus, 306
  lituratus, 307, 308
  planirostris, 306
Aspidogaster, 372
Astiotrema, 278
Ateles, 295
  paniscus, 293, 294
Atrichornis, 23
Atrichornithidae, 23
Atyeo, Warren T., see Moss, W. Wayne, —
Avise, John C., and Michael H. Smith, Gene frequency comparisons between sunfish (Centrarchidae) populations at various stages of evolutionary divergence, 319–335
Aythya
  australis, 267
  novaeseelandiae, 267

Baffincythere, 341
Baker, John R., Race (rev.), 249–250
Baptozius, 140, 146
  vinosus, 143
Barghoorn, Steven F., see McKenna, Malcolm C., —
Barisia monticola, 62, 63
Baroni-Urbani, Cesare, Hologenesis, phylogenetic systematics, and evolution, 343–346

Barrett, Paul H. (ed.), The collected papers of Charles Darwin (rev.), 447–449
Barticonycteris davisi, 309
Bathygobius, 152
Bees
  allodapine, 32–56
Belotelsonidae, 375
Bendz, Gerd, and Johan Santesson (eds.), Chemistry in botanical classification (rev.), 359–360
Bensonocythere, 341
Bezy, Robert L., George C. Gorman, Yung J. Kim, and John W. Wright, Chromosomal and genetic divergence in the fossorial lizards of the family Anniellidae, 57–71
Biogeography, 277–289
Bipes, 67, 152
Birds
  Pacific land, 263–268
  perching, 19–31
Bivariate linear models in biometry, B. Kuhry and L. F. Marcus, 201–209
Blackwelder, R. E., Twenty five years of taxonomy, 107–137
Bombina, 166
Borhyaena, 415, 416, 418, 419
Borhyaenidae, 410–425
Brachipteraciidae, 21
Brachycephalidae, 166
Brachycoelium, 278
Brachyphylla, 307
  cavernarum, 311
  pumila, 306, 311
Braunsapis, 35, 39–52
  facialis, 37, 46
  foveata, 39, 46
  leptozonia, 39, 41, 45, 46
  natalica, 39
  paradoxa, 39, 46
  simplicipes, 39
  trochanterata, 39–42, 45, 46, 48
Brevineura, 36, 37, 42, 45, 51, 52
Brooks, Daniel R., Evolutionary history of some plagiorchioid trematodes of anurans, 277–289
Bucconidae, 22, 27, 28
Bucerotidae, 21
Bufonidae, 287
Burchfield, J. D., Lord Kelvin and the age of the Earth (rev.), 99–100

Calappidae, 139, 141
Callaeatidae, 266
Calinectes, 144, 146–148
  acutidens, 144
  arcuatus, 139, 142
  bellicosus, 142, 145
  bocourti, 142, 145
  exasperatus, 139, 142
  latimanus, 142, 145
  marginatus, 142
  sapidus, 138, 139, 142, 144, 147
  toxotes, 139, 142, 145
Callithrix, 295
  jacchus, 293, 294
Caluromys, 415
Cameron, H. Don, see Platnick, Norman I., —
Cancer, 147, 148
  antennarius, 139, 142, 145, 146
  borealis, 142
  edwardsii, 142, 145
  irroratus, 142
  magister, 139, 142
  novaezelandiae, 142
  oregonensis, 140, 142, 144, 145
  pagurus, 139, 141, 142, 144, 145
  polyodon, 142
  porteri, 142, 145, 146
  productus, 139, 142, 144, 145
Cancridae, 139, 142
Capitonidae, 22, 28
Carcinus
  maenas, 139, 145
  mediterraneus, 142, 145
Carollia, 303, 305, 316
  brevicauda, 306, 311
  castanea, 306, 311, 312, 315
  perspicillata, 311
  subrufa, 311
Carpilius, 140, 143, 146, 148
  convexus, 138, 142, 144, 145, 147
  corallinus, 142, 144, 145
  maculatus, 138, 142, 144, 145, 147
Cebus apella, 293–295
Centrarchidae, 319–335
Centrarchus macropterus, 325, 327
Centrolenidae, 287
Centurio senex, 312
Ceratina, 32, 34–39, 41, 45
  dupla, 39
Cercocebus, 295
  albigena, 293, 294
Cercopithecus, 295
  mitis, 293, 294
Cerithium, 139
Chaenobryttus, 321
Changing the names of higher taxa, on, Michael T. Ghiselin, 346–349
Characters, 269–276
Chauliacia, 388, 401
Chiroderma
  bidens, 304
  improvisum, 306, 313
  salvini, 312
  trinitatum, 312
  villosum, 312
Chiroptera, 300–318
Choeroniscus, 303, 305
  godmani, 306, 310, 315
  intermedius, 311, 315, 316
Choeronycteris mexicana, 311
Choledocystus, 283, 284
Chromosomal and genetic divergence in the fossorial lizards of the family Anniellidae, Robert L. Bezy, George C. Gorman, Yung J. Kim, and John W. Wright, 57–71
Chromosomal variation in *Vampyressa* and a review of chromosomal evolution in the Phyllo-

stomidae (Chiroptera), Alfred L. Gardner, 300–318
Ciochon, Russell L., Robert S. Corruccini, The phenetic position of *Pliopithecus* and its phylogenetic relationship to the Hominoidea, 290–299
Cladistic analysis of borhyaenoid, dasyuroid, didelphoid, and thylacinid (Marsupialia: Mammalia) affinity, Larry G. Marshall, 410–425
Cladistic methods in textual, linguistic, and phylogenetic analysis, Normal I. Platnick and H. Don Cameron, 380–385
Cladistics, 277–289
Cladograms, phylogenetic trees, and hypothesis testing, Norman I. Platnick, 438–442
Cladosictis, 415, 419
Clarkecaris brazilicus, 370
Classification
  phenetic, 32–56
Claw size,
  crab, 138–151
Cluster analysis, 386–409
Clytorhynehus
  nigrogularis, 266
  vitiensis, 266
Cnemidophorus, 67
Coefficients of variation, on comparing, Russell Lande, 214–217
Coevolution, 277–289
Coliiformes, 21
Colless, Donald H., A cornucopia of categories, 349–352
Colobus, 295
  guereza, 293, 294
Compatibility analysis to the Blackiths' data on orthopteroid insects, an application of, George F. Estabrook, Joseph G. Strauch, Jr., and Kent L. Fiala, 269–276
Compsomelissa, 33–35, 41, 47, 49–51
  stigmoides, 39, 46
  zaxantha, 42
Continental and insular speciation in Pacific land birds, Jared M. Diamond, 263–268
Continental drift, 277–289
Coraciidae, 21, 27
Coraciiformes, 21, 27
Coracina, 20
Cornucopia of categories, a, Donald H. Colless, 349–352
Correlation properties of morphometric ratios, Robert S. Corruccini, 211–214
Corruccini, Robert S., Correlation properties of morphometric ratios, 211–214
Corruccini, Robert S., see Ciochon, Russell L., and —
Corystes cassivelaunus, 139
Corystidae, 139
Coua, 264
Crabs, 138–151
Crassostrea virginica, 138
Croizat-Chaley, L., Biogeografia analítica y sintética ("panbiogeografia") de las Américas (rev.), 449–452
Croizat, Leon, review by, 230–233
Cryptocaris, 375
Cyanorhamphus, 266
Cypridopsis vidua, 341, 342

Dactylonax, 415
Dactylopsila, 415
Daldorfia, 140, 146
  garthi, 143
  horrida, 138, 143–145
  investigatoris, 143
  rathbunae, 143
  semicircularis, 143
  spinosissima, 143
Dalloapula, 34, 39–41, 51, 52
Dasycercus, 415, 417
Dasyuridae, 413, 414, 418, 423
Dasyuroides, 415, 417
Dasyurus, 415, 416
Dendrophryniscus brevipollicatus, 166
Dendropithecus, 297
Descendants, 1–11, 12–18
Desmodus, 314
  rotundus, 313
Dessauer, Herbert C., Donald F. Gartside, and Richard G. Zweifel, Protein electrophoresis and the systematics of some New Guinea hylid frogs (genus *Litoria*), 426–436
Devonocaris
  cuylerensis, 367
  destinezi, 367
Diaemus, 307, 314
  youngi, 313
Diamond, Jared M., Continental and insular speciation in Pacific land birds, 263–268
Didelphidae, 414, 417, 418, 423
Didelphodon, 417
Diphylla, 307, 314
  ecaudata, 313
Dirsh, V. M., Classification of the acridomorphoid insects (rev.), 98–99
Discoglossidae, 166
Discordant evolution and the classification of allodapine bees, Charles D. Michener, 32–56
Dispersal, 210–211, 446
Dispersion, 210–211, 446
Dispersal vs. dispersion: Process vs. pattern, David M. Armstrong, 210–211
Dollo's Law, 77–88
Donax faba, 139
Drosophila, 53, 115, 152, 321, 332
  melanogaster, 2
  willistoni, 319, 320, 330
Dugesia tigrina, 152–164

Echineustathia, 388
Echinocythereis, 339
Ectophylla, 313
  alba, 306, 308
Ehrlich, Robert, see Younker, Jean L., —
Elassoma, 321, 328, 329
  evergladei, 324, 325, 327, 332
  okefenokee, 324, 325, 327, 332

Electrophoresis, 152–164, 319–335, 426–436
Elofsonella, 341
Enchisthenes, 312
  hartii, 308
Engelmann, G. F., and E. O. Wiley, The place of ancestor-descendant relationships in phylogeny reconstruction, 1–11
Engelmann, George F., see McKenna, Malcolm C., —
Enneacanthus, 321
  obesus, 324, 325, 327, 333
Eocaris oervigi, 367
Eopterum, 368
Eriphia, 140, 148
  gonagra, 142, 144, 147
  granulosa, 147
  scabricula, 142, 144
  sebana, 138, 142, 144, 145
  smithii, 142, 144, 145
  squamata, 139, 142, 144, 147
  theano, 162
  verrucosa, 139, 142, 144–146
Erophylla, 307
  bombifrons, 306, 311
Erythrura
  cyaneovirens, 267
  kleinschmidti, 267
  pealii, 267
  trichroa, 267
Estabrook, G. F. (ed.), Proceedings of the eighth international conference on numerical taxonomy (rev.), 228–230
Estabrook, George F., Joseph G. Strauch, Jr., and Kent L. Fiala, An application of compatibility analysis to the Blackiths' data on orthopteroid insects, 269–276
Eucondylops, 33–36, 40–44, 47, 49–52, 54
  konowi, 39, 45, 46
  reducta, 43, 45
Eumastacidae, 275
Euphydryas editha, 162
Eurylaimidae, 23, 25, 28
Euryozius, 140, 146
  sanguineus, 142
Eurytium, 140, 141
Eustathia, 388, 390–392, 401
Eustathiidae, 386–409
Evolution, 300–318
Evolutionary history of some plagiorchioid trematodes of anurans, Daniel R. Brooks, 277–289
Exoneura, 33–35, 38–45, 47, 49–52
  baculifera, 41, 44
  concinnula, 39, 46
  hamulata, 36, 46
  obscuripes, 39
  subbaculifera, 39
  variabilis, 36, 39, 45, 46
Exoneurella, 35–37, 39–42, 44, 45, 47, 49–52
  lawsoni, 37, 39, 46
Exoneuridia, 33, 45

Fair, Frank, On interpreting a philosophy of science: A response to Gareth Nelson, 89–91
Falsifiability, 185–194
Farris, James S., Phylogenetic analysis under Dollo's Law, 77–88
Farris, James S., review by, 228–230
Farris, James S., Some further comments on Le Quesne's methods, 220–223
Feather mite, 386–409
Feduccia, Alan, A model for the evolution of perching birds, 19–31
Fiala, Kent L., see Estabrook, George F., —
Finmarchinella, 341
Fitch, Walter M., review by, 359–360
Flectonotus, 72
Foraminifera, 201–209
Foulehaio
  carunculata, 266
  provocator, 266
Fourier biometrics: Harmonic amplitudes as multivariate shape descriptors, Jean L. Younker and Robert Ehrlich, 336–342
Fritziana, 72
Fundulus heteroclitus, 162

Gaffney, Eugene S., see Platnick, Norman I., —
Galbulidae, 22
Galene, 140, 146
Gardner, Alfred L., Chromosomal variation in *Vampyressa* and a review of chromosomal evolution in the Phyllostomidae (Chiroptera), 300–318
Gartside, Donald F., see Dessauer, Herbert C., —
Gastrotheca, 72, 73
  cavia, 74
  marsupiata, 74
  monticola, 74
  riobambae, 74
  weinlandii, 74
Gene frequency comparisons between sunfish (Centrarchidae) populations at various stages of evolutionary divergence, John C. Avise and Michael H. Smith, 319–335
Genetic distance, 319–335
Genetic distances associated with little morphological variation in *Polycelis coronata* and *Dugesia tigrina* (Planaria), large, Stuart E. Nixon and Ronald J. Taylor, 152–164
Genetic divergence, 57–71
Genetic similarity, 152–164
Ghiselin, Michael T., On changing the names of higher taxa, 346–349
Ghiselin, Michael T., On paradigms and the hypermodern species concept, 437–438
Ghiselin, Michael T., reviews by, 100–101, 447
Gingerich, Philip D., Cranial anatomy and evolution of early Tertiary Plesiadapidae (Mammalia, Primates) (rev.), 233–238
Gingerich, Philip D., review by, 358–359
Globopilumnus, 140
Glossophaga, 307, 310, 311, 313
Glyphomycteris, 314
Glypthelmins, 277–286
  africanus, 279
  californiensis, 279

diana, 279, 283
facioi, 279, 280
hepatica, 279
hyloreus, 279, 281, 283, 286
incurvatum, 279, 286
linguatula, 279
palmipedis, 279, 283
pennsylvaniensis, 279, 283
proximus, 279
quieta, 279, 281, 285, 286
repandum, 279
robustus, 285
rugocaudata, 279
shastai, 279
staffordi, 281, 283
subtropica, 280
tineri, 279
vitellinophilum, 279, 281, 286
Gorman, George C., see Bezy, Robert L., —
Grapsidae, 139

Halcyon
chloris, 264
tuta, 266
venerata, 266
Haliotis, 139
Halterapis, 34, 35, 37, 39–42, 44, 45, 47–51
nigrinervis, 36, 39, 46
Haplometrana, 278
Haplometroides, 278
Harpactoxanthopsis, 148
Helodermatidae, 63
Hemicythere, 341
Hemicytheridae, 340, 341
Hemigrapsus edwardsi, 139
Hemiprocne, 400, 401
Hemiprocnidae, 400, 401
Hennig, Willi, 104–105
Hologenesis, phylogenetic systematics, and evolution, Cesare Baroni-Urbani, 343–346
Homalaspis, 140
plana, 145
Homarus americanus, 147
Hominoidea, 290–299
Homo sapiens, 293–295
Hondadelphys, 415
Hull, David L., Philosophy of biological science (rev.), 447
Hull, David L., review by, 99–100
Hyla, 426, 434
arborea, 75
bromeliacea, 75
chrysoscelis, 74
femoralis, 74
gratiosa, 74
hazelae, 74, 75
lanciformis, 165–184
pseudopuma, 74, 75
regilla, 72–74
siopela, 74, 75
staufferi, 74, 75
Hylidae, 72–76, 165–184, 286, 287, 426–436
Hylobates, 295–297
lar, 293, 294
Hylonycteris underwoodi, 311
Hypotheses,
morphocline polarity, 12–18
Hypothesis testing, 1–11

Immunological detection of convergent evolution in the frog *Anotheca spinosa* (Hylidae), Linda R. Maxson, 72–76
Indicatoridae, 22
Inquilina, 35, 40–43, 47, 49–52
excavata, 39, 46
International conference on numerical taxonomy: Tenth annual meeting, P. H. A. Sneath, 442–446
Interpreting a philosophy of science: A response to Gareth Nelson, on, Frank Fair, 89–91
Intrapopulational variation,
Hyla, 165–184

Karl Popper, verifiability, and systematic zoology, David B. Kitts, 185–194
Karyotypes, 57–71, 300–318
Kim, Yung J., see Bezy, Robert L., —
Kitts, David B., Karl Popper, verifiability, and systematic zoology, 185–194
Kuhry, B., and L. F. Marcus, Bivariate linear models in biometry, 201–209

Lacerta, 66, 67
Lacertidae, 67
Laiogonimus, 278
Lalage
maculosa, 267
sharpei, 267
Land bridges, 152–164
Lande, Russell, On comparing coefficients of variation, 214–217
Lazell, James D., Jr., This broken archipelago: Cape Cod and the islands, amphibians and reptiles (rev.), 244–245
Lepomis, 320
auritus, 322, 325, 326
cyanellus, 325, 326
gibbosus, 325, 326
gulosus, 321, 322, 325, 326, 328
humilis, 324–326, 328, 333
macrochirus, 322, 323, 325, 326, 328, 330
marginatus, 324–326, 332, 333
megalotis, 324–326, 332, 333
microlophus, 322, 325, 326
punctatus, 325, 326
Lepsiella, 139
Leptodactylidae, 287
Leptolichus, 388, 391, 397–399, 401, 403
Leptonycteris, 307, 310, 311, 313
Leptosomatidae, 21, 27
Le Quesne, Walter J., The uniquely evolved character concept, 218–220
Le Quesne's methods, some further comments on, James S. Farris, 220–223
Lestis, 33

Libinia, 139
Lichonycteris obscura, 311
Limnopithecus macinnesi, 297
Lionycteris, 314
Litoria, 73, 426–436
  amboinensis, 435
  angiana, 428, 432–434
  arfakiana, 428, 432–434
  aurea, 74
  caerulea, 428, 432, 433, 435
  congenita, 428, 433
  darlingtoni, 428, 432, 433, 435
  eucnemis, 428, 432–435
  infrafrenata, 428, 431, 433–435
  iris, 428, 432–434
  micromembrana, 428, 431–434
  modica, 428, 431–434
  rothi, 428, 432, 433, 435
  thesaurensis, 428, 432, 433, 435
  wollastoni, 428, 432–434
Littorina, 138
Logarithms, 92–93
Lonchophylla
  robusta, 310
  thomasi, 306, 310
Lonchura
  forbesi, 264
  hunsteini, 264
Løvtrup, Søren, Epigenetics, a treatise on theoretical biology (rev.), 238–243
Lycopsis longirostrus, 415
Lydia, 140, 144, 146
  annulipes, 143
  tenax, 143

Macaca fascicularis, 293–295
Macrogalea, 34, 35, 39–45, 47, 49–52
  candida, 36, 39, 46
Macrophyllum, 314
Macropipus puber, 139, 142, 144, 145
Macropodidae, 417
Macrotus, 317
  californicus, 310
  waterhousii, 310, 312
Majidae, 139
Major axis, 201–209
Malacostraca, 367–379
Manuelia, 33, 34, 37
Marcus, L. F., see Kuhry, B., and —
Marmosa, 419
Marshall, Larry G., Cladistic analysis of borhyaenoid, dasyuroid, didelphoid, and thylacinid (Marsupialia: Mammalia) affinity, 410–425
Marsupialia, 410–425
Marsupicarnivora, 410–425
Maxson, Linda R., Immunological detection of convergent evolution in the frog *Anotheca spinosa* (Hylidae), 72–76
Mayr, Ernst, Evolution and the diversity of life: Selected essays (rev.), 224–228
Mayrornis
  lessoni, 266
  versicolor, 266
McKenna, Malcolm C., George F. Engelmann, and Steven F. Barghoorn, review by, 233–238
Meliphagidae, 264
Menidia, 162
Menippe, 140, 144, 147, 148
  frontalis, 142, 145
  mercenaria, 138, 139, 143, 145
  nodifrons, 143, 145
  obtusa, 143, 145
  rumphii, 142, 146
Menuridae, 23
Meropidae, 21
Mesocoelium, 278, 279, 283
  americanum, 280
Mesophylla, 308, 313
  macconnelli, 304, 305
Metaplagiorchis, 278
Michener, Charles D., Discordant evolution and the classification of allodapine bees, 32–56
Microchelys, 388, 389, 401
Micronycteris, 310, 314, 317
  behni, 309
  brachyotis, 309
  hirsuta, 309
  megalotis, 309
  minuta, 309
  nicefori, 309
  platyceps, 309
  schmidtorum, 309
  sylvestris, 309
Micropterus, 328
  salmoides, 325, 327
Mimon
  crenulatum, 307
  koepckeae, 306, 307
Mites,
  feather, 386–409
Model for the evolution of perching birds, a, Alan Feduccia, 19–31
Momotidae, 21, 29
Monophyllus, 307, 310, 311, 313
Monophyly, 195–200
Monotypic genera paraphyletic?, are,—A response to Norman Platnick, E. O. Wiley, 352–355
Monotypy and the origin of higher taxa: A reply to E. O. Wiley, Norman I. Platnick, 355–357
Moriarty, David J., On the use of variance of logarithms, 92–93
Morphocline polarity hypotheses, 12–18
Morphological analysis, 336–342
Moss, W. Wayne, Paul C. Peterson, and Warren T. Atyeo, A multivariate assessment of phenetic relationships within the feather mite family Eustathiidae (Acari), 386–409
Muellerina, 341
Multidimensional scaling, 386–409
Multivariate analysis, 290–299
Multivariate assessment of phenetic relationships within the feather mite family Eustathiidae (Acari), a, W. Wayne Moss, Paul C. Peterson, and Warren T. Atyeo, 386–409
Musonycteris, 314
Musophagidae, 29
Mustela erminea, 92

Myiagra
alecto, 267
azureocapilla, 267
hebetior, 267
vanikorensis, 267
Myomenippe, 140, 146
hartwicki, 143, 145
Myrmecobius, 415
Mytilus edulis, 138

Nasalis larvatus, 293–295
Nasutapis, 35, 40, 42, 47, 49–51
straussorum, 39, 43, 46
Neanis
kistneri, 28
schucherti, 27
Necronectes, 148
Nectocarcinus tuberculosus, 139
Nelson, Gareth, a reply, 91
Nelson, Gareth, reviews by, 243–244, 449–452
Nemolestes, 419, 420
Neochauliacia, 388, 390, 391, 393–395, 399, 401
Neodrepanis, 23
Neopanope sayi, 139
New Guinea, 426–436
Nixon, Stuart E., and Ronald J. Taylor, Large genetic distances associated with little morphological variation in *Polycelis coronata* and *Dugesia tigrina* (Planaria), 152–164
Notharchus tectus, 28
Notophthalmus, 331
Nucella lapillus, 138, 139
Numerical taxonomy, 386–409
Nyctimantis rugiceps, 75

Ocenebra, 140
Ocypode ceratophthalma, 139
Ocypodidae, 139
Odonteustathia, 388, 390, 401
Oligopithecus, 296
Olivella, 139
On dispersal, Carl W. Schaefer, 449
Ophisaurus ventralis, 62, 63
Ophthalmapseudes, 375
Opisthioglyphe, 278–280
Ordination, 386–409
Orthoptera, 269–276
Osteology and anuran systematics: Intrapopulational variation in *Hyla lanciformis*, Linda Trueb, 165–184
Osteopilus septentrionalis, 75
Ostioloides, 278
Ovalipes floridanus, 139
Ozius, 140, 144, 146, 147
granulosus, 143
guttatus, 143, 145
hawaiiensis, 143, 145
perlatus, 143
reticulatus, 143, 145
rugulosus, 143, 145
tenuidactylus, 143, 145
truncatus, 139, 143, 145
tuberculosus, 143, 145
verreauxii, 143, 145

Pachygrapsus crassipes, 139
Pacific land birds, 263–268
Palaeocarpilius, 148
Palaeopalaemon, 368
Paleobiogeography, 19–31
Paleozoogeography of Late Paleozoic and Triassic Malacostraca, Frederick R. Schram, 367–379
Pan
gorilla, 293–295
troglodytes, 293–295
Pangaea, 367–379
Panopeus, 140, 141, 146, 148
herbstii, 139
Papio, 196
Paradigms and the hypermodern species concept, on, Michael T. Ghiselin, 437–438
Paradisaeidae, 264
Paragalene, 140
Parallelism in phylogeny reconstruction, Norman I. Platnick, 93–96
Paraphyletic and polyphyletic groups, Norman I. Platnick, 195–200
Parthenope, 140
excavata, 143
Parthenopidae, 143
Parus
caeruleus, 264
cyanus, 264
Passeriformes, 19–31
Patene, 418, 419
Patterns in crab claw size: The geography of crushing, Geerat J. Vermeij, 138–151
Patterson, Colin, and Donn Eric Rosen, Review of ichthyodectiform and other Mesozoic teleost fishes and the theory and practice of classifying fossils (rev.), 358–359
Paulocaris pachecoi, 370
Pediomys, 418
Peramelidae, 417
Perching birds, 19–31
Percidae, 321
Perimecturus, 368
Petaurus, 415
Peterson, Paul C., see Moss, W. Wayne, —
Phalangeridae, 417
Phascogale, 417
Phasmatidae, 275
Phenetic classification, 32–56
Phenetic position of *Pliopithecus* and its phylogenetic relationship to the Hominoidea, Russell L. Ciochon and Robert S. Corruccini, 290–299
Phenetics, 386–409
Phenograms, 152–164
Philepitta, 23
Philepittidae, 23, 25
Phoeniculidae, 21, 28, 29
Phoeniculus, 21
Phrynohyas venulosa, 74, 75
Phylloderma stenops, 307
Phyllomedusa, 73
trinitatus, 74
Phyllonycteris, 307
obtusa, 306, 311

Phyllops, 312
haitiensis, 306, 308
Phyllostomidae, 300–318
Phyllostomus
discolor, 307
elongatus, 307
hastatus, 307
Phylogenetic analysis, 72–76
Phylogenetic analysis under Dollo's Law, James S. Farris, 77–88
Phylogenetic relationships, 19–31, 32–56
Phylogenetic systematics, 195–200, 380–385
Phylogenetics, 290–299
Phylogeny, 269–276
Phylogeny reconstruction, 1–11, 12–18, 380–385
Picidae, 22
Piciformes, 21, 22, 25, 27
Pithitis, 33
Pittidae, 23
Plagiorchioid digeneans, 277–289
Plagusia, 139
Planaria, 152–164
Platalina, 314
Platnick, Norman, 352–355
Platnick, Norman I., and Eugene S. Gaffney, review by, 361–365
Platnick, Norman I., and H. Don Cameron, Cladistic methods in textual, linguistic, and phylogenetic analysis, 380–385
Platnick, Norman I., Cladograms, phylogenetic trees, and hypothesis testing, 438–442
Platnick, Norman I., Monotypy and the origin of higher taxa: A reply to E. O. Wiley, 355–357
Platnick, Norman I., Parallelism in phylogeny reconstruction, 93–96
Platnick, Norman I., Paraphyletic and polyphyletic groups, 195–200
Platnick, Norman I., reviews by, 96–98, 224–228
Plectrohyla
matudai, 74, 75
pycnochila, 75
sagorum, 75
Pliopithecidae, 297
Pliopithecus, 290–299
vindobonensis, 290, 293, 294
Polycelis coronata, 152–164
Polyphyly, 195–200
Pomoxis nigromaculatus, 324, 325, 327, 333
Pongo, 295
pygmaeus, 293, 294
Popper, Karl, 185–194
Popper, Karl R., Conjectures and refutations: The growth of scientific knowledge (rev.), 363–365
Popper, Karl R., The logic of scientific discovery (rev.), 361–363
Porphyrio
mantelli 267
porphyrio, 267
Portunidae, 139, 144
Portunus xantusii, 139
Presbytis rubicunda, 293–295
Primobucconidae, 28
Proborhyaena, 420, 423
Procladosictis, 418
Propliopithecus, 296
Protein electrophoresis and the systematics of some New Guinea hylid frogs (genus *Litoria*), Herbert C. Dessauer, Donald F. Gartside, and Richard G. Zweifel, 426–436
Prothylacinus, 419
Prothylacynus, 415
Protornis glarninensis, 29
Proxylocopa, 33
Pseudacris, 74
Pseudidae, 286
Pseudocarcinus, 140
gigas, 143, 145
Pternohyla fodiens, 74, 75
Ptilinopus
dupetithouarsii, 266
mercierii, 266
Ptychohyla schmidtorum, 75
Pygoderma, 314

Rabilimis, 340
mirabilis, 339, 341
paramirabilis, 339, 341
septentrionalis, 338, 339, 341
Ramphastidae, 22
Rana
catesbeiana, 280
pretiosa, 166
Ranidae, 166, 287
Rapoport, E. H., Areografía: Estrategia geográfica de las especies (rev.), 230–233
Rauschiella, 283
tineri, 284
Regression, 201–209
Relationships,
ancestor-descendant, 1–11, 12–18
Rhinophylla, 311, 317
fischerae, 312
pumilio, 312
Rhipidura
malaitae, 267
rufifrons, 267
Rhynchocaulus, 388, 391, 397–399, 401, 403
Rosen, Donn Eric, see Patterson, Colin, —
Ross, C. A. (ed.), Paleobiogeography (rev.), 243–244
Ruse, Michael, review by, 447–449

Saimiri, 295
sciureus, 293, 294
Santesson, Johan, see Bendz, Gerd, and —
Sauria, 57–71
Sceloporus grammicus, 66
Schaefer, Carl W., On dispersal, 449
Schram, Frederick R., Paleozoogeography of Late Paleozoic and Triassic Malacostraca, 367–379
Schuh, R. T., and P. Wygodzinsky, Willi Hennig, 104–105
Schuh, Randall T., review by, 98–99
Scincidae, 68
Scleronycteris, 314
Scylla, 140, 146, 148
serrata, 139, 142, 144, 145

Serranidae, 321
Serum albumin, 72–76
Shaskyus, 139, 140
Shoulder, 290–299
Sigmodon fulviventer, 304
Sipalocyon, 415, 419
Slobodchikoff, C. N. (ed.), Concepts of species (rev.), 96–98
Smilisca, 74
Sminthopsis, 415
Smith, Michael H., see Avise, John C., and —
Sneath, P. H. A., International conference on numerical taxonomy: Tenth annual meeting, 442–446
Spalax ehrenbergi, 67
Sparassocynus, 415, 417
Speciation, 263–268
Sphaeronycteris toxophyllum, 312
Stapes, 19–31
Staphylinidae, 122
Statistical inference, 77–88
Stenoderma, 312
  rufum, 308
Strauch, Joseph G., Jr., see Estabrook, George F., —
Sturnira, 308, 313
  magna, 306
  nana, 306
Stylocynus, 417
Sunfish, 319–335
Sussman, R. W., see Tattersall, I., and —
Swifts, 386–409
Systematic zoology, 185–194
Szalay, F. S., Ancestors, descendants, sister groups and the testing of phylogenetic hypotheses, 12–18

Tanysiptera
  galatea, 264
  hydrocharis, 264
Taricha, 66, 331
Tattersall, I., and R. W. Sussman (eds.), Lemur biology (rev.), 245–249
Tattersall, Ian, review by, 249–250
Taxonomy, twenty five years of, R. E. Blackwelder, 107–137
Taylor, Ronald J., see Nixon, Stuart E., and —
Teiidae, 67, 68
Thomomys
  bottae, 69
  talpoides, 67
Thylacinidae, 413, 414, 418, 423
Thylacinus, 410–425
  cynocephalus, 415, 416, 423
  potens, 415, 416
Thylacosmilidae, 414, 415
Todidae, 21, 29
Tonatia, 317
  bidens, 309, 310
  brasiliensis, 306, 308–310
  carrikeri, 306, 309, 310
  minuta, 308–310
  nicaraguae, 309
  silvicola, 306, 309, 310
Trachops cirrhosus, 308
Trachycephalus jordani, 74, 75
Trees,
  phylogenetic, 77–88
Trematodes, 277–289
Tremiorchis, 278
Tribolium, 115
Trinycteris, 309
Trogoniformes, 21
Trueb, Linda, Osteology and anuran systematics: Intrapopulational variation in *Hyla lanciformis*, 165–184
Tyrannidae, 26, 27
Tyranniformes, 22–25

Uca, 147
Uniquely evolved character concept, the, Walter J. Le Quesne, 218–220
Universal statements, 185–194
Upupa, 21
Upupidae, 21
Uroderma, 308, 317
  bilobatum, 310, 312, 313, 315
  magnirostrum, 312, 313
Uta stansburiana, 66

Vampyressa, 300–318
  bidens, 300–304, 306, 312
  brocki, 301–304, 313
  melissa, 300–306, 313
  nymphaea, 302–304, 312, 313
  pusilla, 300–304, 306, 313
Vampyrodes, 308
Vampyrops, 308, 313
  infuscus, 306
  nigellus, 306
Vampyrum, 308
Vangidae, 264
Varanidae, 63
Varanus, 63
Variance of logarithms, on the use of, David J. Moriarty, 92–93
Verifiability, 185–194
Vermeij, Geerat J., Patterns in crab claw size: The geography of crushing, 138–151
Vicariance, 277–289, 367–379
Vini
  placentis, 267
  rubrigularis, 267

Waterstonellidae, 375
Whitehead, Paul Frederick, review by, 245–249
Wiley, E. O., 355–357
Wiley, E. O., Are monotypic genera paraphyletic?—A response to Norman Platnick, 352–355
Wiley, E. O., review by, 238–243
Wiley, E. O., see Engelmann, G. F., and —
Winsor, Mary P., Starfish, jellyfish, and the order of life: Issues in nineteenth-century science (rev.), 100–101
Wright, John W., see Bezy, Robert L., —
Wygodzinsky, P., see Schuh, R. T., and —
Wynyardia, 417

Xanthidae, 139, 142
Xantholithes, 148
Xanthopsis, 148
Xenicidae, 266
Xenoctenes, 309
Xenopodistomum, 278
Xenosauridae, 63
Xylocopa, 33, 45

Younker, Jean L., and Robert Ehrlich, Fourier biometrics: Harmonic amplitudes as multivariate shape descriptors, 336–342

Zosterops
inornata, 267
lateralis, 267
Zweifel, Richard G., review by, 244–245
Zweifel, Richard G., see Dessauer, Herbert C., —
Zygodactylidae, 28
Zygolestes paranensis, 417